EHS   SOFTWARE

Full Line Product Descriptions of all our Software and Hardware for
*** PET, APPLE, ATARI, SYM, KIM ***

PET Stuff

ATARI Stuff

APPLE Stuff

SYM Stuff

KIM Stuff

INTERTEC, ZENITH, C. ITOH and other Stuff

ORDERING INFORMATION:

Send check or money order in US dollars, Master or Visa Card.
For foreign air mail of software, enclose additional $12.00.
(Air Mail of Tiny-C manual, enclose $20.00 because of extra weight.)
A blank order sheet is enclosed in this catalog.

NOTE :

EHS is a software house that is run and operated by J.R. Hall, C.W. Moser, and D.F. Earnhardt. We are in the process of accumulating a collection of quality products for sale to the 6502 microcomputer market. If you have quality software that you have developed and would like to have marketed on a Royality basis, please write describing your product.

EASTERN HOUSE SOFTWARE

3239 Linda Dr.   Winston-Salem, N.C. 27106

(919) 924-2889   or   748-8446

THE PET RABBIT

WOULD YOU AND YOUR PET RATHER BE A SLOW TORTISE OR A FAST RABBIT?

<><> In ROM or on Cassette <><>

The PET RABBIT is a programmers aid which provides 12 additional commands
that can be executed in BASIC's direct mode. In addition to the commands,
automatic repeat of any key held down for 0.5 seconds is also provided.
This will greatly aid inputting of characters and provide more convenient
cursor control.   Most importantly, the RABBIT's high speed recording
technique allows an 8K program to be saved in 38 seconds instead of the
normal 2 minutes 44 seconds in Commodores format. (Note- The RABBIT
cannot be used to store data tapes from BASIC.)

The PET RABBIT is 2K of machine code supplied on cassette or in a ROM
integrated circuit.   The cassette version occupies the top most portion of
memory and can be ordered in one of 5 locations: $1800-$1FFF for 8K PETs;
$3000-37FF or $3800-$3FFF for 16K PETs; and $7000-$77FF or $7800-$7FFF for
32K PETs.   The reason for two different versions for the 16K and 32K is to
provide room for those programmers who use the DOS Support (wedge)
program.   The cassette RABBIT works with 3.0 ROM PETs.

The ROM version is a 24 pin IC which plugs into a spare socket on the
printed circuit board. Since the ROM version does not occupy user RAM, it
will work with any 3.0 or 4.0 ROM PET. The main advantage of the ROM
version is that it does not have to be loaded each time you power up your
PET and it does not occupy valuable RAM memory.

The PET RABBITs high-speed cassette recording feature will not work with
some of Commodores older cassette decks. To be specific, cassette decks
with the lift top lid (termed old style) will not work but all other
features will work.   In addition, some new style cassette decks will not
work. How do you know if your cassette will work? Simple-- open up the
cassette deck and look at the printed circuit board components. If there
are IC packages for all the active components, it will work with the
RABBIT.   If there are any transistors on the board, it will not work.
Most new style cassette decks will work okay since there are very few of
the transistor types.   If you wish to purchase the ROM RABBIT and a
cassette deck, we can offer an attractive discount.

A summary of the RABBIT commands are as follows:

  1) AUTO REPEAT of any key held down for more than 1/2 second. This
      ----------- provides easy and convenient cursor movement and
      multiple character input.
  2) RAM Memory Test, Convert decimal # to hex and vice versa,
      and toggle character set from graphics to upper/lower case.

12 RABBIT COMMANDS

```
SS - Save with short leader      D - Convert decimal # to hex #
SL - Save with long leader       H - Convert hex # to decimal #
 L - Load a program              Z - Toggle character set
 V - Verify a program            K - Kill the Rabbit
 E - Load and then run           * - Go to monitor
 T - RAM Memory Test             G - Go to Machine Language Program
```

Example: L "STAR TREK",2   or   T 1,400,1FFF

Since the RABBIT is an extension of the operating system, the normal PET
load, save, and verify commands can still be used. Also, the RABBIT can
be used with the BASIC PROGRAMMERS TOOLKIT.

ROM version occupies address $A000 for 3.0 ROMs and address $9000 for 4.0
or 8032 ROMs. Please specify 3.0 or 4.0 when ordering.

MANUAL AND ROM = $49.95
MANUAL AND CASSETTE = $29.95

Tiny-C for 32K PET and Disk

C is a programming language designed by Dennis Ritchie at Bell Telephone
Laboratories. C is a versatile and expressive general-purpose programming
language which offers economy of expression, modern control and data
structures, and a rich set of operators.

Tiny-C, a subset of C, was designed by Tom Gibson and Scott Guthry.
Tiny-C for PET was implemented by EHS for use by those who want to study a
modern structured programming language on a CBM computer.

Tiny-C for PET includes:
- Enhanced DOS which provides 6 additional Tiny-C
  oriented commands.
- Tiny-C interpreter, program editor, and library
- Drives IEEE printer
- Auto-repeat key function
- Installation manual describing how Tiny-C was adapted for the PET

Tiny-C Owners Manual is contained in a large ring binder and is required
in order to understand and program in Tiny-C. This manual contains a
tutorial and program walk-through so one can quickly understand the Tiny-C
language.   This manual also contains chapters on the theory of operation
of the Tiny-C interpreter.

    PET Tiny-C diskette for 3.0 Roms and installation manual = $50.00
    Tiny-C Owners Manaual = $50.00 (Add $20.00 for Air Mail shipping)

6502 MACRO ASSEMBLER   AND TEXT EDITOR

FOR PET, APPLE, ATARI, SYM, KIM
$49.95

The only cassette-based assembler that was adapted for all
the major 6502 microcomputers. Thus you can be sure that you
have a "compatible" software package.

NOTE: ASM/TED is upward compatible with our MAE assembler.

See Review in Compute, Call Apple, Pet Gazette, and The Paper!

GENERAL

- Versions currently available for PET, APPLE II, ATARI,
  and SYM on respective compatiable tapes. A KIM version
  is provided in a special high-speed cassette recording format
  (high-speed load/save routines included).
- Written entirely in Machine Language - Not in Basic like some we
  know of. Thus you get very fast and accurate assemblies.
- 36 Error Codes, 26 Commands, 22 Pseudo Ops.
- Macro and Conditional Assembly Capability.
- Apple II version works with Apple II or Plus, DOS or Cassette-based
  systems.
- Occupies 8K of memory starting at $2000. Apple version with disk
  patches occupies just over 9K.
- Each copy is assigned a special serial number. If a major problem
  is ever encountered, an update will be issued.

TEXT EDITOR FEATURES

- Auto line numbering for easy source entry.
- String search command (>FIND)
- String search and replace command (>EDIT).
- Commands to copy or move one or more lines (>COPY, >MOVE).
- Renumber source file command (NUMBER).
- Command to delete one or more lines (>DELETE).
- Load and record commands (>GET, >PUT).
- Source files can also be appended to current file (>GET APPEND).
- Each source file loaded results in a status summary consisting
  of length in bytes plus the address range where loaded.

ASSEMBLER FEATURES

- Labels unique up to 10 characters. Labels may be made up of the
  following: A-Z 0-9 Plus 12 other characters.
- Label expressions may be entered. Ex: LDA TABLE-INDEX+1

- Hex, decimal, binary constants, and ASCII strings may be stored.
  Ex: .BY 'THIS IS A TEXT STRING ENCLOSED IN QUOTES'
        .BY %1101 $F3 49 'ABC' MASKBYTE
- Can specify hi or lo part of label.
  Ex: LDA #H,OP.TABLE   ;LOAD HI PART OF OP.TABLE
        LDA #L,VALUE   ;LOAD LO PART OF VALUE
- Free format input. Simply separate fields with one or more spaces
  and the fields will be automatically tabulated.
- Conditional Assembly and Macro capability.
- Macros can be nested.
- Non-repeating label capability for Macros.
- Conditional Assembly can be incorporated within MACROS.
- Assembler can store object code in memory at a different address
  from its execution address if desired.
- Complete listing can be generated during assembly ()ASSM LIST)
  or an errors only listing can be generated.
- Command to output only the Symbol Table.

OPERATING FEATURES

- Commands may be abreviated to first 2 characters.
- Commands, pseudo ops, and conditionals may be entered as upper or
  lower case characters.
- Except for PET version (Because PET uses these for Graphics), most
  control codes are displayed as c where c is the character that
  would be displayed if hex 40 was added to the code.
  Ex: Control C = ^C , control X = ^X , etc.
- Machine Language programs can be executed via)RUN command.
  Ex:)RUN MEMTEST ,   )RUN $8C0 ,   )RUN 4096
- User command for user created functions ()USER)
- Upper and lower memory boundaries for Text Buffer and Symbol
  Table assume a default size on cold entry, but can be
  changed or displayed via)SET command.

COMMAND SUMMARY *

AUTO	RUN	USER	ASSEMBLE
GET	LABELS	ENTER	SET
PUT	PASS	LOOKUP	CLEAR
DELETE	CLEAR	MANUSCRIPT	)n
HARD	COPY	BREAK	
PRINT	MOVE	EDIT	
NUMBER	FORMAT	FIND	

* Additional commands not listed are provided for each
   implementation that are not available for all versions.

PSEUDO OP SUMMARY

.BA	.OC	.MD	.SI	.CT	.MC	.ME	.DE

```
.CE     .SE     .ES     .DI     .LS     .RC     .EC     .EN
.LC     .EJ     .DS     .OS     .RS     .BY
```

CONDITIONAL ASSEMBLY OPERATOR SUMMARY

```
IFE     IFN     IFP     IFM     SET     ***
```

SOME SIMPLE MACRO EXAMPLES

```
;INCREMENT DOUBLE BYTE LOCATION VIA INCD MNEMONIC
!!!INCD.        .MD   (LOC)          ;MACRO DEFINITION PSEUDO OP
                INC   LOC
                BNE   ...SKIP        ;...label IS NON-REPEATING TYPE
                INC   LOC+1
...SKIP         .ME                  ;MACRO END DEFINITION

;IMPLEMENT SWEET16 MNEMONIC SET.
!!!SET.         .MD   (REG  CONSTANT)   ;SET REG. TO A CONSTANT
                .BY   REG+$10           ;FORM MNEMONIC
                .SE   CONSTANT          ;FORM CONSTANT (2 BYTES)
                .ME

;SAVE REGISTERS VIA SAVEREG MENONIC IMPLEMENTATION
!!!SAVEREG      .MD
                PHP      ;SAVE PSR
                PHA      ;SAVE R(A)
                TXA      ;SAVE R(X)
                PHA      ;  *
                TYA      ;SAVE R(Y)
                PHA      ;  *
                .ME
```

ATARI INFORMATION

The ASSM/TED for ATARI occupies 9K of memory and includes a
machine language monitor for de-bugging your programs.
ASSM/TED comes on cassette or on diskette for use with the
810 disk (specify when ordering). Works with ATARI BASIC.
The diskette version is exactly like the cassette version except
that it is booted from disk at the same time the DOS is loaded.
Therefore, it is more convienent to use than the cassette version.
The diskette version (as with the cassette version) only supports
the loading and saving of source files through the the cassette
recorder. ASSM/TED reauires at least 40K of memory.

   Cassette version - $49.95   Diskette version - $53.95

GRAPHICS   DRAWING   COMPILER

$29.95 on cassette (for ASSM/TED)
$34.95 on diskette (for MAE)

Requires: The Eastern House Software PET or SYM Macro ASSM/TED.
             The SYM version is designed to work with the Synertek
             KTM 2/40 or KTM 2/80 CRT interface, but one could easily
             modify the Macro package for other CRT terminals.
             We recommend 24K RAM memory in order to effectively
             use this compiler.

MUSIC AND SOUND COMPOSER

$29.95 on cassette (for ASSM/TED)
$34.95 on diskette (for MAE)

Requires: The Eastern House Software PET Macro ASSM/TED.
             We recommend 20K RAM memory in order to effectively
             use this compiler.

The Graphics Drawing Compiler (GDC) and Music and Sound Composer (MSC)
Compiler are composed of a number of macros which emulate a high-level
graphics or music language.   In addition to the macros, they provide some
very useful enhancements to the ASSM/TED.

For those who are not familar with the term, a compiler is a program which
translates statements written in a high-level language into a sequence of
machine instructions.   Since these compilers generate pure machine code,
no runtime package is required.   In fact, after you have sucessfully
compiled a program, it can be executed without the ASSM/TED and the
compiler.

The main purpose of this work is to illustrate by example the anatomy of
an easy to understand compiler, and to provide a mechanism whereby the
reader could easily develope his own compiler - be it an industrial
control compiler, music compiler, or just a collection of macros which aid
in program development.

Whether you intend to use this information for graphics drawing or for
some other macro implemention, the ideas presented apply to practically
all applications.   Macros can represent a high-level interface between the
programmer and assembly language, making the source listing easier to
read. Thus, coding should be easier for the programmer resulting in
programs which are more reliable and less expensive to produce.

GDC or MSC provide the following:

   A. ASSM/TED Enhancements:
       For both SYM and PET: >BUILD command which provides ability
       --------------------   to build into ASSM/TED a library of
       symbols or set of macros which define a compiler.

For the PET: Provides for >FORMAT command to set the maximum
------------   label length (max. = 31 characters/label), and
preservation of zero page so Basic and ASSM/TED can coexist.

B.   GDC Command Summary:

ADD, BEGIN, BELL, CLEAR, DO, DEFINE, DRAWU, DRAWD, DRAWL, DRAWR,
END, GRAPHY, GRAPHN, HOME, INPUTB, INPUTC, JUMP, JUMPE, JUMPG,
JUMPGE, JUMPL, JUMPLE, JUMPN, OUTPUTB, OUTPUTC, POSABS, POSREL,
PRINT, REVRSN, REVRSY, SUB, VECTUR, VECTUL, VECTLR, VECTLL

C.   MSC Command Summary:

1) Tempo from 60 to 130 beats per minute.

2) Four octaves of notes (including sharps and flats).

3) And these commands: ADD, BEGIN, BYTE, CLRSND, DO, END,
    FREE, JUMPE, JUMPG, JUMPL, JUMPN, SETx, SHRATE,
    SUB, WAIT.

SPECIAL: Buy both GDC and MSC and deduct 10% of cost.

TRAP   65

PRICE REDUCED TO $69.95

TRAP 65 is a circuit intended for use by machine language programmers to
prevent execution of unimplemented 6502 opcodes.   Since unimplemented
opcodes will cause unpredictable 6502 operation and/or cause the system to
crash, it would be desirable to prevent the 6502 from executing these
opcodes.   TRAP 65 is a circuit that will perform this function. Whenever
TRAP 65 detects an unimplemented opcode, it will force an entry to your
monitor and display the address+1 of the unimplemented opcode. The
programmer can then easily correct the error without having to spend hours
searching for the cause of the crash.

TRAP 65 can also be used to extend the 6502 instruction set on PETs, SYMs,
and KIMs. You can do this by placing an address at the IRQ vector which
points to a routine which executes code you assign to the unimplemented
opcode.   Imagine these: PHX, PHY, JMP (TABLE,X), one byte calls, 16 bit
opcodes, etc.!!!

The TRAP 65 circuitry is mounted on a 4 3/4 x 3 1/2 inch Printed Circuit
Board. Fully assembled and tested. Installs in seconds. Works with PET,
Apple][, KIM, SYM, OSI, and AIM. Does not work with ATARI.

MAE — Macro Assembler/Text Editor

See Review in Compute and Kilobaud!

The only disk assembler that was adapted for all the major 6502 microcomputers. Thus you can be assured that you have a "compatible" software package. MAE is a machine language development aid for the following computers:

Commodore:

   2001-32K (3.0 Roms) and 2040, 4040, 8050 disk, or CGRS PEDISK II.
   4001-32K (4.0 Roms) and 2040, 4040, 8050 disk, or CGRS PEDISK II.
      (Also 2001 with upgrade 4.0 Roms)
   8032 and 2040, 4040, 8050 disk, or CGRS PEDISK II.

Apple][:

   48K Apple][or Plus and Disk II (DOS 3.2 or 3.3).

Atari:

   32K Atari and Atari 810 Disk.

      NOTE: Please specify computer and disk drive when ordering.

MAE contains the most powerful 6502 assembler and text editor currently on the market. If you are looking for a professional development tool that can greatly increase the productivity of your programming staff, then MAE may be the answer. Check these features:

GENERAL

- MAE was written entirely in machine language – not in Basic like
  some assemblers we know of. Thus you get very fast and accurate
  assemblies.
- PET version coexists with Basic.
- 38 error codes, 27 commands, 26 pseudo ops, and 5 conditional
  assembly operators.
- Has built in software UART (110 - 9600 baud) which can drive an
  external device (PET and APPLE versions only).
- All commands oriented for disk operation.
- Macro, Conditional Assembly, and Interactive Assembly capability.
- Optionally creates executable object code in memory or relocatable
  object code on disk.

TEXT EDITOR FEATURES

- Auto line numbering for easy source entry.
- String search command (JFIND).
- String search and replace command(JEDIT).
- String search and conditionally replace by stepping thru file and
  prompting user for determination of replacement (JEDIT *).

- Commands to copy and move one or more source lines (]COPY,]MOVE)
- Renumber source file command (]NUMBER).
- Command to delete one or more lines (]DELETE).
- Load and record commands (]GET,]PUT).
- Source files can also be appended to current file (]GET APPEND).
- Each source file loaded results in a status summary consisting of
  length in bytes plus the address range where loaded.
- Word Processor file included which adds capability to Right
  and Left Justify, center phrases, set margins, define text body
  shapes, titles, footers, link named disk files together, plus
  other text processing features.

ASSEMBLER FEATURES

- Labels unique up to 31 characters. User specifies maximum label
  length via]FORMAT command.
- Label expressions may be entered. EX: LDA TABLE-INEDX+1
- Hex, decimal, binary constants, and ascii strings may be stored.
  EX: .BY 'THIS IS A TEXT STRING'
         .BY %1101 $F3 49 'ABC' MASKBYTE
- Can specify hi or lo part of label.
  EX: LDA #H,OP.TABLE   ;LOAD HI PART OF OP.TABLE
         LDA #L,VALUE   ;LOAD LO PART OF VALUE
- Free format input. Simply separate fields with one or more spaces
  and the fields will be automatically tabulated.
- Conditional Assembly operators: IFE, IFN, IFP, IFM, SET.
- Macro capability via .MD pseudo op (Macro Definition).
- Non-repeating label capability for macros.
- Macros can be nested.
- Both passes of assembly are accomplished automatically.
- Conditional Assembly can be incorporated within macros.
- Capability to store executable object code in memory and/or output
  relocatable object to disk during assembly.
- Assembler can store object code in memory at a different address
  from its execution address if desired (via .MC pseudo op). This
  is useful if object is to execute in memory space occupied by MAE.
- Can assemble source from memory or, for long programs, multiple
  source files from disk as follows:
         .FI "MODULE1"
         .FI "MODULE2"
         .FI "MODULE3"
- Complete listing can be generated during assembly (]ASSM LIST) or
  an errors only listing can be generated. Three ways to generate
  an errors only assembly:
         via]ASSM NOLIST command
         via .LC pseudo op
         via DEL or control O key during output
- Interactive Assembly feature which provides for assembler to output
  messages and accept input during assembly process.
  EX: INPUT BEGIN ASSEMBLY ADDRESS
         ? 1000
- Command to output the entire symbol table or just certain types
  of symbols.

- Sorted symbol table.

SIMPLIFIED TEXT PROCESSOR FEATURES

- Single/double/triple/etc. spacing, left and right justification,
  ragged right/left margins, centering, margin control, headers,
  footers, printing of text in shapes, text files may be linked so
  that document size is limited only by the amount of disk capacity.
- STP text macros include: .LINK, .VSPACE, .Sn, .M, .NOFILL, .FF,
  .JU, .RR, .RL, .Ln, .C, .SWAP, .P, .T, .FOOT, .SET, and .SHAPE.

OPERATING FEATURES

- Commands may be abbreviated to first 2 characters.
- Commands, pseudo ops, and conditionals may be entered as upper or
  lower case characters.
- Machine language programs can be executed via]RUN command.
- User command for user created functions (]USER).
- Upper and lower boundaries for text file and symbol table assume
  a default size on cold entry, but can can be changed or displayed
  via]SET command.

RELOCATING LOADER FEATURES

- Separate program from Assembler/Text Editor but is included in
  MAE package.
- Provides capability to quickly relocate the ASSM generated
  relocatable object code files in 3 separate segments:
     1)   Program Body
     2)   Absolute Variables
     3)   Zero Page Variables
- One can also relocate but store the executable code at a
  different address.
- Included in the MAE package is an executable copy of the
  relocating loader. A relocatable copy of the relocating loader
  is also provided in the PET and APPLE versions.

MATERIAL SUPPLIED

- MANUAL = 50+ page manual with description of all commands and
          pseudo ops, many examples, and an example software
          listing of a program which illustrates the
          assembler format.
- DISKETTE = 5 1/4" compatible floppy diskette containing not
            only the MAE software but also several other useful
            program files.

NOTE :

COMPLETION OF ATTACHED LICENSE AGREEMENT MUST ACCOMPANY ORDER.
MAE Diskette containing the Macro Assembler/Text Editor, STP
Word Processor, Relocating Loader, plus other files not described
here, with full documentation — $169.95.

PET   SOFTWARE

Supersort/Superbase by James Strasma

Supersort/Superbase consists of the following 2 programs:

1) A machine language Shell-Metzer general purpose sorting program that
    sorts a Basic programs string and integer arrays at lightning speed.

2) A sequential file manager (Superbase) that uses Supersort for
    sorting.   Use Superbase for mail lists and other file management
    needs. Commands to add and change data, print to screen or printer,
sort on a specified item, etc. $35.00 (Disk only) includes documentation.

Games sold by EHS

Space Invasion -   By Richard Mansfield, for 8032 PET. Action-packed
                   shoot-em-down game. Action like Space Invaders but
                   different.   Rare category of program as there are few
games for 8032. $17.95 on diskette.

Muon Invasion -   By Richard Mansfield, for 2001 series PET.   Muon
                   warships have just entered the Milky Way. Its up to you
                   to blast them with your gravitation beams. $9.95

Hidden Words -   By Richard Mansfield, for any PET. Two player word game
                   in which the winner is the player who identifies the
                   greater number of words in the time allowed. $9.95

UFO Search -   By Betsy Robinson, for   any   40-column   PET.   From
               constellation Cassiopeia and the Big Dipper to Scorpius and
               Perseus, this program displays graphical representation of
one or more constellations.   You guess if there is a UFO in the STARS.
Its you (Earth) against outer space. $9.95

Speedy Biorythm -   By Betsy Robinson, for any 40 column PET.   Plots
                    biorythm on PET's screen. $9.95

NOTE: Except for Space Invasion, all prices are for
        shipment on cassette. Add additional $3.00 if you want games
        shipped on diskette.

6800 and 8085 Cross Assemblers

EHS has 6800 and 8080/8085 Cross-Assemblers available for the PET, Atari, and Apple computers. A Cross-Assembler is an assembler program that functions on a certain processor but assembles code for a different processor. For example, EHS's MAE6800 Cross-Assembler is an assembler/text editor that functions on a 6502-based PET but it generates machine code for the 6800. You still write your program in 6800 Assembly Language and the generated object code must be down-loaded to a 6800-based system for execution. A good use is in a University or company that already has a PET and must develope a program for say a 6800 based controller. If you've already got a PET, it sure beats having to shell out another $10,000+ for a 6800 Motorola Development System. A Commodore computer, MAE6800, and the K-Z EPROM Programmer makes a nice 6800 Development System. Price = $500.00.

APPLE MAIL LIST SYSTEM

Sorts on zip code or last name. Prints mailing labels.
Approximately 1000 names/diskette.
Requires 48K Apple, disk, Applesoft in ROM, DOS 3.2 or 3.3
(please specify). Diskette and manual. REDUCED to $19.95.

EPROM PROGRAMMER FOR PET AND ATARI

Program 2716, 2516, and 2532 EPROMS using the BRANDING IRON connected to your computer. Housed in an attractive box. Software included.
Any PET = $75.00. ATARI = $119.95 (includes machine language monitor).

8032 CBM TERMINAL SOFTWARE

When this catalog was being prepared, we were just about finished with our super terminal software for the 8032 CBM computer. Write for price. Includes RS232 Hardware Interface.

- Constantly displays time in status line.
- 300 Baud full or half duplex or local mode.
- Download or Upload to/from disk (4040 or 8050).
  (We've actually used this software to log into a DEC 10 Mainframe
  and copy some basic games to the PET and run them.)
- Drives printer and disk, uses inexpensive RS232 modem. No need
  to buy Commodores expensive IEEE modem.
- Status line displays various information with critical indicators
  in blinking format.
- Automatically tokenizes or untokenizes PET Basic programs that
  are downloaded or uploaded.

ATARI SOFTWARE

MACHINE LANGUAGE MONITOR FOR ATARI

The Machine Language Monitor for ATARI provides 21 commands which allows
the user the ability to interact with the 6502 microprocessor. It is
compatable with ATARI BASIC and (once loaded) is ready for your use at
anytime.   The monitor comes on cassette or on diskette for the ATARI 810
disk (the cassette version cannot be saved on disk).

The monitor is independent of the amount of system memory and BASIC.
Thus, it can function with with varing amounts of memory. It can even
function with no BASIC and 48K of memory.   The monitor uses ATARI's
powerful screen editing capability. This makes the monitor easy to use.

Some of the monitor commands are:
Display Memory   Display Registors
Alter Memory   Alter Registers
Fill Memory   Compare Memory
Transfer Memory   Hex To Decimal
Decimal To Hex   Save Memory To Cassette
Load Cassette To Memory   Change Memory
Goto Memory   Hunt Memory For Hex
Hunt Memory For ASCII   Calculate Branch
Send Data To Printer   Send Data To Screen
                    and Disassemble Memory

Cassette version -- $24.95   Diskette version -- $29.95
Requires at least 8K memory.   Requires at least 16K memory.

MEMORY TEST FOR ATARI

When you purchase a new ATARI or add on new RAM modules, you need to be
sure that the memory is working properly. Remember, you only have a short
guarantee on your memory. Memory Test performs the most extensive memory
check available.   Prints to screen each memory location found bad.
Requires 8K of memory.

Cassette and Manual -- $6.95

TYPING EXERCISE FOR ATARI

Typing Exercise is a great educational program for those who wish to
improve their typing skills. Typing Exercise consists of two programs.
TYPING 1 contains 13 typing drills; 9 drills progress thru alphabet and 4
thru numerics. TYPING 2 is a timed typing test.   Time and words per
minute are calculated for you.   Both exercises show errors in inverse
video. Requires 16k of memory.
810 Diskette -- $12.95

THE   MONKEY   WRENCH   <tm>

The Monkey Wrench is a ROM cartridge which extends the operating capability of the ATARI 800 computer. When installed into the ATARI, the Monkey Wrench provides 9 new direct mode BASIC commands. The commands are:

Auto Line Numbering	– Provides new line numbers when entering BASIC program lines.
Delete Line Numbers	– Removes a range BASIC line numbers.
Change Margins	– Provides the capability to easily change the screen margins.
Memory Test	– Provides the capability to test RAM memory.
Renumber	– Renumbers BASIC's line numbers including internal references.
Cursor Exchange	– Allows usage of the cursor keys without holding down the CTRL key.
Hex Conversion	– Converts a hexidecimal number to a decimal number.
Decimal Conversion	– Converts a decimal number to a hexdecimal number.
Monitor	– Enter the machine language monitor.

In addition to the BASIC commands, the Monkey Wrench also contains a machine language monitor with 15 commands used to interact with the powerful features of the 6502 microprocessor.

Price – $49.95

EPROM   Board

The EPROM Board is a specially designed printed circuit board for use in the cartridge slot of an ATARI computer. The intent of the EPROM cartridge is to allow the user the capability to easily install his or her own EPROM software programs for controlling the ATARI system. The EPROM Board has the ability to contain up to 8K bytes of EPROM memory. The board is setup to use 2716 or 2532 type EPROMs but can use other types of EPROMs. We sell EPROMs for the EPROM Board – see following page.

Price – $19.95

(Note: See Page 13 for information on the BRANDING IRON 2716/2532 EPROM Programmer.

<> <> <> <>   Other Hardware that we sell!!   <> <> <> <>

INTERTEC	List	Our Price
Superbrain 64K - 350K Floppy Storage	$3495	$2995
" QD 64K - 700K " "	$3995	$3495
Superfive I - 350K Floppy and 5MB Hard	$6995	$5395

Zenith	List	Our Price
Z-89-GA 48K, no floppy drives	$2595	$2225
Z-89-FA 48K, one floppy drive	$2895	$2450
Z-87-Dual 5 1/4" Floppy (200K)	$1195	$1050
Z-47-DA-Dual 8" Floppy (2.5 MB)	$3695	$2950

NOTE: We have an extensive list of software for the INTERTEC
        that we sell at discounted prices.

Other Hardware

. ZENITH Green Screen Monitor for Apple $129.95
. Zenith Z19 Terminal $795.00
. Starwriter printer with tractors 25 cps   CBM = $1690.00
   APPLE Parallel = $1645.00, APPLE RS232 = $1700
. Universal Data System Modem direct connect
   300 baud ORG./ANS = $169.95, with auto answer = $199.00,
   1200 baud = $259.00
. C. Itoh Comet I dot matrix w/IEEE or Apple Interface $429.95
. C. Itoh Comet II (parallel) = $829.95,   (serial) = $895.00
. Tymac Parallel Interface for Apple $119.95
. Hayden Applesoft Compiler $179.95
. C. Itoh Prowriter parallel interface (list=$595) $519.95
. C. Itoh Prowriter serial interface (list=$645) $559.95
. Wordsworth 48K (Zenith Z-89 FA, CPM, Wordstar
   wordprocessor, Starwriter letter quality printer.
   List = $4995.) $4650.00
. Wordsworth 64K (same as above but with 64K RAM.
   List = $5135.) $4774.00
. Wordsworth 64K-2 (same as above but includes
   Z-89-GA and Z-87. List = $5500.) $5115.00
. Wordsworth 64K-3 (same as above but includes
   Z-89-FA and Z-87. List = $5995.) $5575.00
. MPC 16K Memory Board for Apple (List = $149.50) $120.00
. Apple upper and lower case ROM $24.95
. Printer interface cables also available for
   Radio Shack, Apple, IEEE, etc.   (Call for Price)

EPROMS   2716 +5V, 450ns = $6.50   DISKETTES 5 1/4 inch for PET
======   2532 +5V, 450ns = $12.50   ========= APPLE,ATARI, etc.
                                                  Box of 10 = $22.50
RIBBONS   Ribbon Cartridges for Starwriter, Diablo, etc.
=======   Mylar = $5.00   or   Cloth = $6.00

Dear PET and VIC Owners:

For $6.00 and a small favor, we would like to sell you a copy of a very neat CURSOR SCROLLING PROGRAM that we have developed.

First let me describe the cursor scrolling program. This program provides the capability to scroll forward and backward thru a BASIC program using the cursor up (CU) and cursor down (CD) keys. For example, cursor to the top of the screen, press cursor up and the screen will "reverse scroll" with the top line displaying the previous BASIC line. Auto-repeat is enabled on all keys and you can simply hold down the CU key to continuously scroll backwards thru the file until you remove your finger from the key or you reach the start of your program. Similarly, you can cursor to the bottom of the screen and scroll forward thru your BASIC program until the end. As you can see, the scroll program makes browsing through and locating those bugs a breeze.

Now you're wanting to know "what is the small favor?" — Right? The small favor we're wanting is some free advertising and you can help. Did you know that a full-page advertisement in BYTE magazine costs several thousand dollars — and that is just for one appearance? Kilobaud, Creative Computing, Compute, and Micro are not as high but are still significant costs. How can anyone sell inexpensively priced software with such high advertising costs? Now don't get us wrong, advertising in magazines is useful and has its place. You'll note that Eastern House advertises a lot. But advertising is by far our greatest expense. So, we're trying an experiment and, with your help, maybe we can change the way software is sold. If we can reach the PET community at minimal cost, the savings can be passed on to you. This technique just may be the solution to software piracy — that is, who would want to steal from some poor programmer at this small price! Thanks for your time and lets all work togther — Carl Moser, EHS.

To order the cursor scroll program:
1-) Make 5 copies (or more) of this letter.
2-) Send all but one copy to other PET owners (free advertising) who might like to purchase this program. Examples: Friends, computer club members, and magazine article authors.
3-) Use last copy as your order form for ordering the cursor scroll program.
                    Scroll Order Information
                    ------ ----- -----------

Circle per you computer:

  PET 2001 -8K, -16K, -32K (3.0 Roms, 4.0 Roms, or Original Roms)
  PET 4001 -8K, -16K, -32K (4.0 Roms) (9-inch or 12-inch screen)
  CBM 8032 (80 column PET)
  VIC   (NOTE: VIC and Original Rom version available Nov. 1981.)

Price: $6.00 on cassette, $9.00 on diskette
        (Postpaid in U.S. and Canada — Add $5 for overseas airmail)
  Name:

  Address:

  City/State/Zip:

Would you like to see other offers like this: YES   NO

Eastern House Software
3239 Linda Drive
Winston-Salem, N.C. 27106

Send my order to:

NAME:

ADDRESS:

CITY/STATE/ZIP:

Quantity	Description	Price
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TOTAL:
Send check, money order,   ---------
Master Card, or Visa Card.

SHIPPING:
Orders may be called in at: ---------
    (919) 924-2889   9-5 EST   If Resident of
                                     North Carolina
                                     4 % Sales Tax:

NOTE: Please describe your
        equipment so we can   TOTAL:
properly fill your order: ---------

Circle one for your Computer   Circle one or more for storage device
-----------------------------   --------------------------------------
PET 2001 8K, 16K, or 32K   Cassette
PET 2001/4.0 roms 8K, 16K, or 32K   PET 2040 or 4040 disk drive
PET 8032 80 column   PET 8050 disk drive

APPLE][16K, 32K, or 48K   APPLE Disk II or Cassette
                                        DOS 3.2 or 3.3
ATARI 400 or 800 8K, 16K, 32K, 40K, 48K ATARI Disk or Cassette

Overseas orders must include enough postage for air mail shipment
(Approximately $12.00 for most software, $20.00 for Tiny-C Manual.)

"Support of this sort is often lacking amongst software vendors." --- Professor at Ohio State Univ.

"After dealing with a number of software firms, it is a great plesure to deal with someone who is willing to work with his users instead of telling them they are on their own." --- User at Helix Data Systems

"I must admit it's one of the few software products really worth its price." --- User at Softwarevervund, West Germany

"I complement you and your associates on the general excellence of the software." --- User in Maryland

"I want to express my greatest admiration for your program. In every way, in every detail attention has been paid to the needs and desires of the user of the program. Commands are simple, straightforward, easy-to-use." --- User at Motorola Inc.

"I recently bought MAE and, of course find it extraordinary." --- User in Pennsylvania